**Biology How Organisms Obtain Energy (8.1 Outline)**

*Vocabulary*: Define in your own words

Energy-

Thermodynamics-

Metabolism-

Photosynthesis-

Cellular respiration-

Adenosine Triphosphate (ATP)-

Briefly describe the following concepts:

What are the first two laws of thermodynamics? Explain what each law means. (4 pts)

What is the difference between an autotroph and a heterotroph? (2 pts)

What is the difference between an anabolic pathway and a catabolic pathway in terms of metabolism? (2 pts)

How do photosynthesis and cellular respiration differ? Be specific? (4 pts)

Explain how ATP stores and releases energy. Also, explain ATP's structure. (4 pts)

***ABOUT THE READING:***

Write 2 things that you learned about the Cellular Energy:

1.

2.

**Assigned work:** *Create an analogy to describe the relationship between photosynthesis and cellular respiration.*